

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-64. Cancel.

65. (Previously Presented) A system for treating the heart, comprising:
a cardiac harness configured to conform generally to at least a portion of a human heart;
the cardiac harness formed of undulating strands of hinge elements;
a first set of undulating strands forming an electrode and a second set of undulating strands having a dielectric coating and being electrically insulated from the first set of undulating strands; and
a power source for providing electrical energy to the electrode.

66. (Previously Presented) The system of claim 65, wherein the first set of undulating strands forming the electrode are formed from a metallic alloy.

67. (Previously Presented) The system of claim 66, wherein the metallic alloy is coated with a layer of material taken from the group of materials consisting of platinum, platinum-iridium or iridium oxide.

68. (Previously Presented) The system of claim 65, wherein the first set and the second set of undulating strands are compressible for minimally invasive delivery of the cardiac harness.

69. (Canceled)

70. (Previously Presented) The system of claim 65, wherein the dielectric coating is taken from the group of insulating materials consisting of silicone rubber, Parylene™, polyurethanes, PTFE, TFE, and ePTFE.

71. (Previously Presented) The system of claim 65, wherein the electrode is configured to provide an electrical shock to the heart for defibrillation.

72. (Previously Presented) The system of claim 65, wherein the electrode is configured to provide pacing therapy.

73. (Previously Presented) The system of claim 65, wherein the electrode is configured to provide pacing and sensing therapy.

74. (Previously Presented) A system for treating the heart, comprising:
a cardiac harness formed of rows of hinge elements, the rows configured to cover at least a portion of the heart;
at least one row forming an electrode;
a plurality of rows having a coating of a dielectric material and being electrically insulated from the electrode; and
a power source for providing electrical energy to the electrode.

75. (Previously Presented) The system of claim 74, wherein the at least one row forming the electrode is formed from a metallic alloy.

76. (Previously Presented) The system of claim 75, wherein the metallic alloy is coated with a layer of material taken from the group of materials consisting of platinum, platinum-iridium or iridium oxide.

77. (Previously Presented) The system of claim 74, wherein the rows are compressible for minimally invasive delivery of the cardiac harness.

78. (Canceled)

79. (Previously Presented) The system of claim 74, wherein the dielectric material is taken from the group of insulating materials consisting of silicone rubber, Parylene™, polyurethanes, PTFE, TFE, and ePTFE.

80. (Previously Presented) The system of claim 74, wherein the electrode is configured to provide an electrical shock to the heart for defibrillation.

81. (Previously Presented) The system of claim 74, wherein the electrode is configured to provide pacing therapy.

82. (Previously Presented) The system of claim 74, wherein the electrode is configured to provide pacing and sensing therapy.

83. (Previously Presented) A system for treating the heart, comprising:
a cardiac harness formed of rows of hinge elements configured to conform generally to at least a portion of a human heart;
the cardiac harness having a conducting portion and a non-conducting portion wherein the non-conducting portion is coated with a dielectric material and is electrically insulated from the conducting portion; and
a power source for providing electrical energy to the conducting portion.

84. (Previously Presented) The system of claim 83, wherein the conducting portion comprises an electrode.

85. (Previously Presented) The system of claim 84, wherein the electrode is formed from a metallic alloy.

86. (Previously Presented) The system of claim 85, wherein the metallic alloy is coated with a layer of material taken from the group of materials consisting of platinum, platinum-iridium or iridium oxide.

87. (Previously Presented) The system of claim 84, wherein the electrode is configured to provide an electrical shock to the heart for defibrillation.

88. (Previously Presented) The system of claim 84, wherein the electrode is configured to provide pacing therapy.

89. (Previously Presented) The system of claim 84, wherein the electrode is configured to provide pacing and sensing therapy.

90. (Previously Presented) The system of claim 83, wherein the conducting portion and the non-conducting portion are compressible for minimally invasive delivery of the cardiac harness.

91. (Canceled)

92. (Previously Presented) The system of claim 83, wherein the electrical insulation is taken from the group of insulating materials consisting of silicone rubber, Parylene™, polyurethanes, PTFE, TFE, and ePTFE.

93. (Previously Presented) A system for treating the heart, comprising:
a cardiac harness configured to conform generally to at least a portion of a human heart;
the cardiac harness formed of rows of first hinge elements and second hinge elements;
the first hinge elements forming an electrode and the second hinge elements being coated with a dielectric material and being electrically insulated from the first hinge elements; and
a power source for providing electrical energy to the electrode.

94. (Previously Presented) The system of claim 93, wherein the first hinge elements forming the electrode are formed from a metallic alloy.

95. (Previously Presented) The system of claim 94, wherein the metallic alloy is coated with a layer of material taken from the group of materials consisting of platinum, platinum-iridium or iridium oxide.

96. (Previously Presented) The system of claim 93, wherein the first and second hinge elements are compressible for minimally invasive delivery of the cardiac harness.

97. (Canceled)

98. (Previously Presented) The system of claim 93, wherein the dielectric material is taken from the group of insulating materials consisting of silicone rubber, Parylene™, polyurethanes, PTFE, TFE, and ePTFE.

99. (Previously Presented) The system of claim 93, wherein the electrode is configured to provide an electrical shock to the heart for defibrillation.

100. (Previously Presented) The system of claim 93, wherein the electrode is configured to provide pacing therapy.

101. (Previously Presented) The system of claim 93, wherein the electrode is configured to provide pacing and sensing therapy.

102. (Previously Presented) A system for treating the heart, comprising:
a cardiac harness configured to conform generally to at least a portion of a human heart;
the cardiac harness formed of at least one first strand of non-overlapping undulating hinge elements and a plurality of second strands of non-overlapping undulating hinge elements;
the at least one first strand of undulating hinge elements forming an electrode;

the at least one first strand of undulating hinge elements and the plurality of second strands of undulating hinge elements having high fatigue resistance and the same compliance; and

a power source for providing electrical energy to the electrode.

103. (Previously Presented) The system of claim 102, wherein the plurality of second strands of undulating hinge elements being coated with a dielectric material and being electrically insulated from the electrode.

104. (Previously Presented) The system of claim 102, wherein the at least one first strand of undulating hinge elements and the plurality of second strands of undulating hinge elements are formed from a metal alloy taken from the group of metal alloys consisting of nickel-titanium (NiTi), nickel-titanium-vanadium (NiTiVa), superelastic alloys and shape memory alloys.

105. (Previously Presented) The system of claim 102, wherein the electrode is connected to an adjacent second strand of undulating hinge elements by an electrically non-conductive dielectric material.